

SOSSEDOV N. I.

VORONTSOV, O.S.; GOLIK, M.G.; DELIDOVICH, V.N.; KLEYEV, I.A.; KOZ'-
MINA, N.P., doktor biologicheskikh nauk, professor; SOSSEDOV, N.I.
FESTA, N.Ya.; CHUKHAR'KO, Z.T.; GEL'MAN, D.Ya., redaktor; LI-
BUS, G.A., tekhnicheskiy redaktor.

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(Grain--Storage)

SOSEDOV, N.; FREYMAN, I.; VAKAR, A.

Preventive disinfection of grain with gas and conditions necessary
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ego pererabotki.
(Grain--Disinfection)

Sosedor, N.

IVANOVA, Z., kandidat sel'skokhozyaystvennykh nauk; SOSEDOV, N., kandidat biologicheskikh nauk.

Chloropicrin fumigation of pea seeds. Muk.-elev.prom. 20 no.9:7-
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✓ Influence of dichloroethane and chloropicrin on biochemical properties of grain. N. I. Sosedov, Z. B. Drazdova, and I. K. Freiman. Biokhim. Zemli. Sbornik 1956, No. 3, 195-220.—Treatment of grain with gaseous dichloroethane (I) does not affect its bread-baking properties because I has no effect on enzymic activities of the grain, with the exception of the coenzyme for glutamine dehydrogenase, the activity of which somewhat declines along with a decrease in the SH-group content. Large quantities of I affect the phys. properties of gluten, decreasing its specific elasticity, accompanied by partial oxidation of the SH groups within the gluten. Gassing of mature wheat grain with chloropicrin (II) lowers its seed properties. Immature wheat grain is less affected by II, owing to poor penetration of the gas across the seed membrane. Fumigation by II should be made before the maturation of the grain is completed after harvest. Changes in the bread-baking qualities of wheat subjected to II gassing depend on the effects of the gas on gluten. II sharply depresses the activity of the coenzyme for glutamine dehydrogenase and catalase of grain and reduces the SH content therein, while the activities of diastase, invertase, and phosphatase remain unaffected. The difference in the action of I and II on the properties of seeds and their enzymic systems is due to differences in the affinity of the gases towards the SH groups of the proteins, including enzymes. 106 references.

J. A. Stekol

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yego pererabotki. (Grain--Drying)

SOSEDOV, N.I., kand.biol.nauk; VAKAR, A.B., kand.khim.nauk; PERTSOVSKIY,
Ye.S., nauchnyy sotrudnik; DROZDOVA, Z.B., nauchnyy sotrudnik;
TPLCHINSKAYA, Ye.S., nauchnyy sotrudnik

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(Radiation--Physiological effect) (Wheat)

SOSEDOV, N.I. (Moscow)

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(GRAIN,

fumigation, pub. health aspects, review (Rus))

(POISONS,

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redaktor; MIKHAJLOVA, V.V., tekhnicheskij redaktor.

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Krivoy Rog basin] Novaia tekhnika i peredovaia organizatsiia truda
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[Expansion of the U.S.S.R. iron mining and ore dressing
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KUSHENSKIY, K.S., inzh., laureat Stalinskoy premii; VERIGO, K.N., inzh.;
ROSSMIT, A.F., inzh.; GOKHMAN, Ye.V., kand.ekon.nauk; ABRAMOV, V.S.,
kand.tekhn.nauk; SOSEDOV, O.O., otv.red.; PARTSEVSKIY, V.N., otv.
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1961. 285 p. (MIRA 15:2)

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PHASE I BOOK EXPLOITATION

SOV/5474

Terpigorev, A. M., Academician [deceased], Chairman of the Editorial Board, R. P. Kaplunov, Professor, Doctor of Technical Sciences, Deputy Chairman of the Editorial Board, Ye. F. Moskal'kov, Mining Engineer, V. V. Nedin, Professor, Doctor of Technical Sciences, Yu. V. Seledkov, Mining Engineer, O. O. Sosedov, Mining Engineer, and L. Ya. Tarasov, Mining Engineer.

Spravochnik po gornorudnomu delu. t. 2: Podzemnyye raboty (Ore-Mining Industry Handbook. v. 2: Underground Operations) Moscow, Gosgortekhizdat, 1961. 855 p. Errata slip inserted. 12,000 copies printed.

Scientific Eds. (Title page): A. M. Terpigorev, Academician, and R. P. Kaplunov, Professor, Doctor of Technical Sciences; Resp. Ed.; L. Ya. Tarasov; Eds. of Publishing House: M. M. Smirenskiy, and V. N. Partsevskiy; Tech. Ed.: V. L. Prozorovskaya, and M. A. Kondrat'yeva.

Card 1/18

Ore-Mining Industry (Cont.)

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of Technical Sciences (deceased); Part XII by G. M. Malakhov, Professor, Doctor of Technical Sciences; and Part XIV by V. N. Voronin, Doctor of Technical Sciences (deceased), and L. D. Voronina, Candidate of Technical Sciences. No personalities are mentioned. Each part of the handbook is accompanied by references, all Soviet.

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O.O., retsenzent; KAPLUNOV, R.P., otv. red.; YEROKHIN, G.M.,
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Vitaliy Ivanovich; KISELEV, Vyacheslav Mikhaylovich;
KULIKOV Vladimir Vasil'yevich; MELESHKIN, Sergey Mikhaylovich;
SINARENKO, Aleksandr Ivanovich; KHIVRENKO, Akim Foteyevich;
SHKUTA, Eduard Ivanovich; SHOSTAK, Afonasiy Grigor'yevich;
MOSKAL'KOV, Yevgeniy Fedorovich, retsentent; SOSEDOV, Orest
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SOSKOV, V.P.

Characteristics of electric and heat conditions of graphitizing furnaces. Konstr. uglegraf. mat. no.1:99-108 '64.
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SOSEDOVA, A.I..

USSR/Engineering - Materials, Ultrasonics

Jun 52

"Electromechanical Q-Meter - Equipment for Measuring the Elasticity Modulus and Losses of Materials Under Ultrasonics," N.S. Ageyeva, I. P. Zhukov, N. A. Isaakovich, A. L. Sosedova, Yu. M. Sukharevskiy

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Describes in detail equipment for said measurements under ultrasonics within the range of tens of kilocycles. Explains the theory of the equipment and gives computational formulas and graphs for detg Young's modulus of solids and modulus of shear of rubber-like materials and decrement of extinction, according to elec measurements. Also indicates the effect of temp and pressure on results. Received 30 June 1951.

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(Georgia--Box)

KUTATELADZE, K.S., doktor tekhn.nauk; TANDILOVA, K.B., cand.tekhn.nauk;
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SOSENKIY, B.N., vrach-ekspert

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(WOUNDS AND INJURIES,
gunshot of heart, clin. aspects & working capacity in
(Rus))
(HEART, wounds and injuries,
gunshot, clin. aspects & working capacity in (Rus))

AYZENSIADT, L.A.; PEN'KOV, P.M.; GLADKOV, B.A.; LIKHT, L.O.; KRIMMER, T.Ye.; KASHEPAV, M.Ya., kand. tekhn. nauk; MERPERT, M.P., kand. tekhn. nauk; KOPERBAKH, B.L.; CHERNIKOV, S.S., kand. tekhn.nauk; BELOV, V.S.; ZHURIN, B.F.; MONAKHOV, G.A., kand.tekhn.nauk; MOROZOV, I.I.; MUSHTAYEV, A.F.; OGNEV, N.N.; PALEY, M.B., kand. tekhn. nauk; FURMAN, D.B.; LIVSHITS, A.L., kand.tekhn.nauk; MECHETNER, B.Kh.; SOSENKO, A.B.; AVDULOV, A.N.; LEVIN, A.A., kand.tekhn. nauk; YAKOBSON, M.O., doktor tekhn.nauk; MAYOROVA, E.A., kand.tekhn.nauk; MOROZOVA, Ye.M.; ZUSMAN, V.G., kand.tekhn. nauk; NAYDIS, V.A., kand.tekhn.nauk; VLADZIYEVSKIY, A.P., prof., doktor tekhn. nauk, red.; BELOGUR-YASNOVSKAYA, R.I., red.; CHIGAREVA, E.I., red.; ASVAL'DOV, M.Ya., red.; KOGAN, F.L., tekhn. red.

[Machine-tool industry in capitalist countries] Stanko-stroenie v kapitalisticheskikh stranakh. Pod red. i s pre-disl. A.P.Vladzievskogo. Moskva, 1962. 822 p. (MIRA 15:7)

1. Moscow. TSentral'nyy institut nauchno-tekhnicheskoy informatsii mashinostroyeniya. 2. Eksperimental'nyy nauchno-issledovatel'skiy institut metallorezhushchikh stankov (for Vladziyevskiy, Belogur-Yasnovskaya, Chigareva, Asval'dov, Kogan).

(Machine-tool industry)

1.110 3008

24761

S/119/61/000/007/005/008
D247/D306

AUTHORS: Livshits, A.L., and Sosenko, A.B.

TITLE: Extension of technological scopes of electric
impulse machining

PERIODICAL: Priborostroyeniye, no. 7, 1961, 19 - 21

TEXT: The feature of this method of machining is the application of smoothly regulated prolonged arc unipolar voltage and current impulses of constant frequency. The speed of metal removal in the case of steel 45 exceeds 7000 mm³/minute with the surface cleanliness below that of 1st class (T OCT 2789-59), - (GOST 2789-59). A three-dimensional diagram of the relationship between the area of the surface being machined, average current required and resulting speed of metal removal is given. In the case of soft metals the resulting surface cleanliness is of the 4th class, the output being lowered to 6 - 8 mm³/minute. The cleanliness of the 6 - 7 class is achieved with high frequency impulse generators with the speed of development of the surface 0.25 -

Card 1/4

24761
S/119/61/000/007/005/008
D247/D306

Extension of technological...

on the combination of preliminary electric impulse machining with the subsequent grinding proved successful for the hard-alloy dies and draw plates. The machining is on the following mass-produced machines: an electric impulse type 4A722 and 473 and an ultrasound type 4772. The electric impulse method is suitable for making deep holes. The electrodes for this purpose are mushroom shaped. The speed amounts to 1 - 3 mm/minute. Several features of four important machines are given tabulated form. The machines 4B721, 4A722 and 473 have been mass-produced since 1960 at the Troitskiy Stankostroitel'nyy Zavod (Machine Construction Plant). Other electric impulse machines are being developed. The impulse generators MTW-2M, - (MGI - 2M) and MTW-3M, - (MGI - 3M), designed by XTM, - (KhPI) and 3 HMMC - (ENIMS), replace the existing MTW-2, - (MGI - 2) and MTW-3 - (MGI - 3). The new generators reduce the power consumption by 25% and provide higher current. The increase of cleanliness of surface from 3 - 4th class, obtainable with the use of generators working at a frequency of 400 impulses/sec. to 6 - 7th class is

Card 3/4

5/121/62/000/006/004/011
D040/D113

1.1110

AUTHOR: Sosenko, A.B.

TITLE: Spark-erosion working of gas-turbine wheels

PERIODICAL: Stanki i instrument, no. 6, 1962, 16-20

TEXT: Small gas turbine wheels with curved thin blades were produced from solid refractory steel billets by the described new techniques and a model 473 spark-erosion machine of ENIMS design, with electrodes shaped in the form of a recess between the wheel blades. Detailed technological recommendations are given for the electrode penetration rate and current variations in the process. Formulas are given for determining the required current density and electrode feed, and for calculating the number of electrode passes per recess or wheel. Erosion was conducted in commercial oil no. 12, the electrode serving as anode and the work as cathode. Electrodes made of 39Г (EEG) proved highly wear-resistant. Electrodes can also be made of aluminum or graphitized stock produced by Soviet industry. Aluminum electrodes may be tipped with EEG. Spark-erosion working of a turbine wheel, 300 mm in diam., on the 473 machine was 10 times faster than by milling, and the time required

✓ B

Card 1/2

SOSENKO, A.B.

Metal cutting on electric-pulse machines with multiple electrode
tools. Stan.1 instr. 34 no.2:1-5 F '63. (MIRA 16:5)
(Electric metal cutting)

L 5282-66 EWT(d)/EWT(m)/EWP(v)/EWP(k)/EWP(n)/EWP(b)/EWP(1)/EW1(h)/EWP(t) JD
ACC NR: AP5022042 SOURCE CODE: UR/0286/65/000/014/0113/0113

AUTHOR: Sosenko, A. B.

ORG: none

27
Q3

TITLE: Electrode tool. Class 49, No. 173117 /announced by Experimental Scientific Research Institute of Metal Working Machines (Eksperimental'nyy nauchno-issledovatel'skiy institut metallorezhushchikh stankov)/

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 14, 1965, 113

TOPIC TAGS: metalworking, nonmechanical metal removal, electroerosion, electro-erosion machining, electrode

ABSTRACT: This Author Certificate presents an electrode tool for electroerosion working of irregular interiors. The tool consists of elements with various physical properties. To increase the effectiveness of the process, those portions of the tool that run parallel or at small angles to the direction of the tool feed are made of material more wear-resistant than other parts. This material may be EEG. The parts forming angles near 90° with the direction of tool feed are made

Card 1/2

UDC: 621.9.018.5

09010492

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001652520010-9

SOSELIYA, L.D., inzh.; LOMSADZE, I.A., inzh.; YASHAGASHVILI, Ye.I.

Quality of clinkers has been improved. TSement 31 no.5:16-17 S-0 '65.
(MIRA 18:10)

1. Rustavskiy tsementnyy zavod.

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001652520010-9"

NCSOV, V.A., kand.tekhn.nauk; BARASHKOV, S.K.; DYACHENKO, M.A.; SOSENKO,
A.P.

Ultrasonic instrument for measuring electrolyte concentration.
Avtom.i prib. no.1:56-59 Ja-Mr '62. (MIRA 15:3)

1. Institut avtomatiki Gosplana USSR.
(Ultrasonic testing)

NOSOV, V.A., kand. tekhn. nauk; DYACHENKO, M.A.; SOSENKO, A.P.; MINOVSKIY, A.I.

Ultrasonic meter of alkali concentration. Avtom. i prib.
no.4:64-68 O-D '63. (MIRA 16:12)

1. Institut avtomatiki Gosplana UkrSSR.

SOSENKO, N., inzh.

Let's make more efficient use of compressors. Sov. torg.
34 no.6:20-22 Je '61. (MIRA 14:7)
(Refrigeration and refrigerating machinery)

Sosenko, P.P.

USSR/Electronics - Electronic and Ionic Emission

H-2

Abs Jour : Referat Zhur - Fizika, No 5, 1957, 12298

Author : Gurtovoy, M.Ye., Sosenko, P.P.

Inst :

Title : On the Depth of the Ion-Electron Emission

Orig Pub : Nauk. povidomleniya Kiivs'k. un-tu, 1956, vyp. 1, 11

Abstract : Brief report on the work of the authors, in which they obtained results that show that the ion-electron emission upon bombardment by fast hydrogen ions is a phenomenon that takes place within the volume of the emitter, and is not localized on its surface.

Card 1/1

SOSENKOY, V. A.

Cand Med Sci - (diss) "Conditioned-reflex changes in cardiac activity and in respiration in cats with removed cortex of the cerebral hemispheres (neocortex)." Ivanovo, 1961. 14 pp; (Ivanovo State Medical Inst); 200 copies; price not given; (KL, 5-61 sup, 206)

SOSENKOY, V.A.

On the manifestation of internal inhibition in autonomic
reactions in cats devoid of neocortex. Zh. vyssh. nerv. deiat.
Pavlov 13 no.3:543-552 '63. (MIRA 17:9)

1. Kafedra normal'noy fiziologii Gor'kovskogo meditsinskogo
instituta im. S.M. Kirova.
(CEREBRAL CORTEX)
(AUTONOMIC NERVOUS SYSTEM)
(REFLEX, CONDITIONED)

PHASE I BOOK EXPLOITATION

SOV/5113

Gerlakh, L. N., A. V. Simonov, and Yu. N. Sosenkov

Bystrodeystvuyushcheye pechatayushcheye ustroystvo dlya universal'nykh vychislitel'nykh mashin (High-Speed Printer for General-Purpose Calculating Machines) Moscow, Vychislitel'nyy tsentr AN SSSR, 1960. 23 p. 750 copies printed.

Sponsoring Agency: Vychislitel'nyy tsentr AN SSSR.

Ed.: M. V. Yakovkin; Tech. Ed.: A. I. Korkina.

PURPOSE: This booklet is intended for engineers and other technical personnel concerned with high-speed printers for digital computers.

COVERAGE: This brief booklet describes a new high-speed electro-mechanical printer for use with digital computers. The paper reviews the operating characteristics of existing printers, and describes the operating principles of the new design. Block diagrams of the major sub-system of the new printer and

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High-Speed Printer (Cont.)

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descriptions of the operational sequences, format, and programs are presented. There are no references. No personalities are mentioned.

TABLE OF CONTENTS:

Introduction	3
1. Construction Principle of a New High-Speed Electromechanical Printer	4
2. Description of the Operation of the Functional Block Diagram	10
3. Description of the Operation of the Printing Mechanism	14
4. Time Diagram	17
Conclusions	19

Card 2/3

POMERATNSIV, V.V., doktor tekhn. nauk, prof.; MARGULIS, S.A., inzh.;
YEKIMOV, G.K., inzh.; SOSENSKIY, A.I., inzh.

Operation of the V.V. Pomerantsev high-speed TsKTI furnace on
waste wood. Energomashinostroenie 11 no.5:7-10 My '65.
(MIRA 18:6)

SOSENSKIY, I., BORISOV, L.

Europe, Eastern - Economic Conditions

Successes in industrial development in the countries of the people's democracy, Vest. stat., No. 3, 1952.

Monthly List of Russian Accessions, Library of Congress, November 1952. Unclassified.

GORDEYEV, G.S., prof.; YAKUSHKIN, D.I.. Prinimali uchastiye: GORSKAYA, N.V.; GRANOVSKAYA, A.Ye.; YEVSTIGNEYEVA, Yu.G.; KRYLOV, M.V.; LEYKIN, D.I.; MAKHOVETSKIY, V.B.; MEYENDORF, A.L.; NAZARENKO, V.I.; NICHIPORUK, O.K.; PAVLOV, L.I.; RUMYANTSEVA, N.V.; SOSENSKIY, I.I.; CHERNEVSKIY, Yu.V.. TULUPNIKOV, A.I., red.; SOLOV'YEV, A.V., prof., red.; RAKITINA, Ye.D., red.; ZUBRILINA, Z.P., tekhn.red.

[Agriculture in capitalist countries; a statistical manual] Sel'skoe khoziaistvo kapitalisticheskikh stran; statisiticheskii sbornik. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1958. 247 p. (MIRA 12:5)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut ekonomiki sel'skogo khozyaystva. 2. Otdel nauchnoy informatsii po ekonomike i organizatsii sel'skogo khozyaystva zarubezhnykh stran Vsesoyuznogo nauchno-issledovatel'skogo instituta ekonomiki sel'skogo khozyaystva (for all except Tulupnikov, Solov'yev, Rakitina, Zubrilina). 3. Direktor Vsesoyuznogo nauchno-issledovatel'skogo instituta ekonomiki sel'skogo khozyaystva (for Tulupnikov). 4. Zamestitel' direktora Vsesoyuznogo nauchno-issledovatel'skogo instituta ekonomiki sel'skogo khozyaystva (for Solov'yev).

(Agriculture--Statistics)

25519

S/108/61/016/008/001/006
D280/D3046.9200
AUTHOR:

Sosenskiy, N.L., Member of Society (See Association)

TITLE:

Determination of read-out points and of the approximating function of stationary random processes

PERIODICAL: Radiotekhnika, v. 16, no. 8, 1961, 6-12

TEXT: In problems of restoring continuous random functions of time within a given time interval from the readings of its quantized values, several problems arise. In stationary random processes with known correlation functions an approach to solving this problem can be used which is based on the theory of linear interpolation of stationary random processes. This theory permits, from known values of x_i , $i = 1, 2, \dots, m + 1$, to restore a random stationary process (Fig. 1) at certain instants t_i and from the known correlation function of the process, to interpolate this restoration to instants $t_k + \theta_k$. The interpolation is achieved by observing two conditions: 1) the value

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D280/D304

Determination of read-out...

$a_k(\Theta_k)$ of the random process to be determined at instant $t_k + \Theta_k$ is a linear function of values x_i of this restoration at instants t_i :
 $a_k(\Theta_k) = a_1(\Theta_k)x_1 + a_2(\Theta_k)x_2 + \dots + a_{m+1}(\Theta_k)x_{m+1}$; 2) Function $a_i(\Theta_k)$ is of the least value of the mean square $\sigma_k^2 = \overline{[x(t_k + \Theta_k) - a_k(\Theta_k)]^2}$ determined from the conditions interpolation error. The problem of determining the number of read-out points and of approximating function for gaussian random stationary processes can be defined as follows: 1) Determine such intervals between the read-out points T_k for which σ_k^2 would not exceed predetermined values; 2) Determine function $a_k(\Theta_k)$. It is evident that the solution of such problems in a general case is very complicated. If, however, the interpolation is made not from all known read-out points in the interval T (Fig. 1) but only from two read-outs x_k and x_{k+1} between which is the instant $t_k + \Theta_k$, then simple design formulae can be obtained which

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could be applied to the solution of the above problem. In the present article the author presents the derivation of such formulae and gives numerical example of their application. It is seen that the approximating function $a_k(\theta_k)$ with the relative error not exceeding

$\sigma_{k \max}$ is either a straight line or a polynomial of the third degree.

The expressions mentioned in the article have been used in two examples. One for the case of a voltage $U(t)$ at the output of an integrating RC network having a time constant T_0 , to the input of which the white

noise, having the energy spectrum G , was applied; the second for a similar problem, that of two RC integrating networks connected in series, but with the second network not shunting the first. It is stated in conclusion that the application of the theory of interpolation of stationary random processes to the problem of approximation of gaussian random processes permits simple engineering formulae to be obtained which are not limited in their applications in the manner, in which the read-out theorem of Kotel'nikov is limited. *Abstractor's note:*

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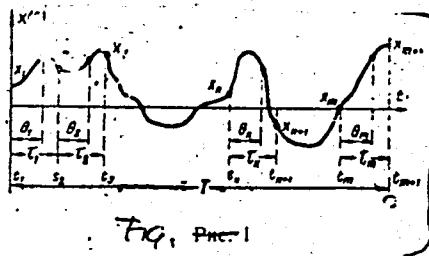
Determination of read-out...

S/108/61/016/008/001/006
D280/D304

Kotel'nikov theorem not stated]. Although the linear interpolation formulae derived are not the best to be applied to the non-gaussian processes, they can be, nevertheless, applied to evaluate the number of read-outs required. There are one figure and 3 Soviet-bloc references.

ASSOCIATION: Nauchno-tehnicheskoye obshchestvo radiotekhniki i elektronsvyazi im. A.S. Popova (Scientific and Technical Society of Radio Engineering and of Electrical Communications im. A.S. Popov) [Abstractor's note: Name of Association taken from first page of journal].

SUBMITTED: May 10, 1960



Card 4/4

L 1.6137-65 ENT(d)/ENT(m)/EWP(r)/EPA(w)-2/EWP(k)/EWP(h)/EWA(m)-2/EWP(l) Pt-7/Pf-4/
Pab-10 IJP(c) GS

S/0000/64/000/000/0217/0221

ACCESSION NR: AT5007920

AUTHOR: Batskikh, G. I.; Vasil'yev, A. A.; Dzergach, A. I.; Mints, A. L.; Sosenskiy, N. L.

76
58
B+1

TITLE: Design for an automatically controlled 1-Gev accelerator 19

SOURCE: International Conference on High Energy Accelerators. Dubna, 1963. Trudy.
Moscow, Atomizdat, 1964, 217-221

TOPIC TAGS: high energy accelerator, injector, automatic control system, cybernetic
system

ABSTRACT: The present report describes the design of an automatically controlled ("cybernetic") 1-Gev accelerator represented by a betatron (100 MeV betatron) (E. L. Burshteyn et al., DAN SSSR, 141, 590 [1961], present collection, p. 67). It proposes methods for the solution of two problems: (1) the experimental investigation of the system for automatically controlling the parameters determining the betatron motion of the accelerated particles; and (2) the construction of an accelerator that has (a) comparatively free tolerances on the accuracy governing the realization of the magnetic system, (b) a small chamber aperture, and (c) small magnet weight for large beam intensity (about $5 \cdot 10^{10}$ protons per impulse). In the

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L 46157-65

ACCESSION NR: AT5007920

determination of the parameters governing the automatically controlled accelerator a necessary condition was that the free betatron and synchrotron oscillations should be sufficiently small. Decreasing the shift of the equilibrium orbit from the chamber axis by means of a system for automatically controlling the first revolution and the equilibrium orbit permits a considerable decrease in the aperture of the vacuum chamber. The authors discuss in some detail such control and the vacuum system. For this reason the stiffness of focusing should be increased as much as possible; i.e., the number Q of betatron oscillations per revolution should be increased, but such increase is limited by design conditions such as actually realizable magnetic field gradients and minimum acceptable distances between the magnets. After calculation of several variants for focusing structures, the authors decided on a system of parameters characterized by the values $Q = 6.25$, mean radius $r_m = 8.5$ meters, and radius of curvature of the particle trajectory in the magnets $r_O = 0.7$, $r_m = 5.95$ meters. The diameter of the beam in the accelerator chamber for an injection energy of 1 Mev from a Van de Graaf accelerator (practical emittance 30 mrad \cdot mm) is about 8 mm. The maximum amplitude of the synchrotron oscillations which corresponds to an energy increment of 2 kev is 2 mm. The first revolution is treated for a constant magnetic field at injection equal to $B_t = 250$ gauss. For a mean-square shift of the magnets of 0.25 mm and standard error in the field of 1%, the tolerated mean-square deflection of the beam equal to 3 mm results at 1/8 of a

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ACCESSION NR: AT5007920

18

revolution. Therefore passage of the beam through the entire vacuum chamber necessitates an automatic system for controlling the first revolution, which the authors discuss in some detail. The automatic control of the frequency of betatron oscillations of the center of gravity of the bunch of particles is also discussed together with the generation of the accelerating potential, the injector and input system, the electromagnet and its power supply, and the vacuum system. "Participants in the planning of the accelerator were V. A. Karpov, Yu. A. Vasina, V. V. Vladimirov, N. I. Kuz'mina, G. N. Tsameryan, N. I. Andryushchenko-Lutsenko, N. Ya. Basalayeva, V. V. Kurasov, and V. L. Davydov. The author expresses his thanks also to his co-workers at the Radio Engineering Institute, Academy of Sciences, USSR: E. L. Burshteyn, S. M. Rubchinskiy, F. A. Vodop'yanov, V. F. Semenov, A. A. Kuz'min, Yu. M. Lebedev-Krasin, A. A. Zhdanko, and M. I. Basaleyev, namely for their participation in the discussion of the problems touched upon in this report." Orig. art. has 5 figures.

ASSOCIATION: Radiotekhnicheskiy institut AN SSSR (Radio Engineering Institute, AN SSSR)

SUBMITTED: 26 May 64

ENCL: 00

SUB CODE: NP

Card 3/4

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001652520010-9

L 46157-65

ACCESSION NR: AT5007920

NO REF SOV: 008

OTHER: 001

Card 4/4

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001652520010-9"

L 2277-66 EWT(m)/EWA(m)-2 IJP(c) OS

UR/0000/64/000/000/0874/0871

ACCESSION NR: AT5007958

45

13

B+1

AUTHOR: Dzergach, A. I.; Sosenskiy, N. L.

TITLE: Control of the spatial harmonics of magnetic field gradient which cause the appearance of forbidden frequency bands of betatron oscillations in strong-focusing accelerators

SOURCE: International Conference on High Energy Accelerators. Dubna, 1963.
Trudy. Moscow, Atomizdat, 1964, 874-877

TOPIC TAGS: high energy accelerator, focusing accelerator, betatron, automatic frequency control

ABSTRACT: The movement of particles with constant momentum in a strong-focusing magnetic field of given structure in a ring accelerator is determined by various factors, especially the index n of magnetic field drop of each of the magnets. The deviation of n from the nominal rating leads particularly to the frequency deviation of betatron oscillations and to the appearance of parametric excitations (E. Courant, H. Snyder, *Ann. Phys.*, 3, 1 (1958)). The present report is devoted to an investigation of the possibility of controlling these forms of distortion of the index n of magnetic field drop, which govern the parametric excitation of betatron

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L 2277-66

ACCESSION NR: AT5007958

oscillations and determine the width of the forbidden bands. The problem is discussed under the assumption of field linearity. The report considers the functions $n_0(\theta)$ and $n(\theta)$, which are respectively the nominal-rated and the actual dependences of the index of magnetic field drop upon azimuth θ , and their difference, which is a periodic function with period 2π :

$$\Delta n(\theta) = n(\theta) - n_0(\theta)$$

It is expanded into a Fourier series with fundamental period 2π :

$$\Delta n(\theta) = \frac{a_0}{2} + \sum_{k=1}^{\infty} a_k \cos(k\theta + \psi_k),$$

Also considered is the number of wavelengths of betatron oscillations per revolution

$$Q = \bar{Q} + q, \quad -0,5 < q < +0,5,$$

where \bar{Q} is closest to Q , an integer. The main influence upon the parametric excitation of particle betatron oscillations in a strong-focusing system with given Q turns out to be the harmonics of $\Delta n(\theta)$ with the numbers

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ACCESSION NR: AT5007958

2

$$k = 2\bar{Q}, \quad 2\bar{Q} \pm 1,$$

which govern the appearance of forbidden bands around the integral and half-integral numbers Q and $Q \pm 0.5$ (the sign here coincides with the sign of the quantity q). These forbidden bands correspond to the regions of instability of the parametric particle oscillations. In order to realize such a correction of the index n , which leads to decreasing the permissible tolerances in the choice of n from magnet to magnet, it is necessary to introduce into the magnetic field a compensation in the harmonics of the function $\Delta n(\theta)$ with numbers $k = 2Q$ and $k = 2Q + 1$ or $k = 2Q - 1$ (depending upon the sign of q). Orig. art. has: 2 figures, 10 formulas.

ASSOCIATION: Radiotekhnicheskiy institut AN SSSR (Radio Engineering Institute, AN SSSR)

SUBMITTED: 26May64

ENCL: 00

SUB CODE: NP

NO REF SOV: 002

OTHER: 001

Card 3/3

DP

L 4227-66 EWT(m)/EPA(w)-2/EWA(m)-2 IJP(c) GS

ACCESSION NR: AT5007959

S/0000/64/000/000/0878/0881

AUTHOR: Sosenskiy, N. L.

TITLE: System for controlling the frequency of betatron oscillations in a strong-focusing accelerator

19

SOURCE: International Conference on High Energy Accelerators. Dubna, 1963.
Trudy. Moscow, Atomizdat, 1964, 878-881

TOPIC TAGS: high energy accelerator, focusing accelerator, betatron

ABSTRACT: One of the possible methods for realizing a system for controlling the frequency of betatron oscillations executed by the center of gravity of a bunch of accelerated particles has been described earlier (Burshteyn, E. L.; Vasil'yev, A. A.; Mints, A. L.; Petukhov, V. A.; Rubchinskiy, S. M., *Atomnaya energiya* 12, 111 (1962)). The importance of this method consists in the following: with the help of exciting action the betatron oscillations are communicated to the bunch of accelerated particles. A certain spectral component is separated from the voltage arising here at the signal electrodes. The frequency of this spectral component is measured, and a signal is formed which is proportional to the magnitude of the

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L 4227-66

ACCESSION NR: AT5007959

non-correspondence between this frequency and the quantity that the frequency should be equal to. The amplified signal of non-correspondence controls the current in special windings which correct the gradient of the accelerator's control field. The present report is devoted to a discussion of certain problems connected with the design of such a control system. The main topics are: the excitation of oscillations, and a system for the automatic control of the frequency of betatron oscillations. "The author thanks A. A. Vasil'yev and A. A. Kuz'min for their discussions of a number of problems considered in this report." Orig. art. has: 2 figures, 16 formulas.

ASSOCIATION: Radiotekhnicheskiy institut AN SSSR (Radio Engineering Institute, AN SSSR)

SUBMITTED: 26May64

ENCL: 00

SUB CODE: NP

NO REF SOV: 001

OTHER: 002

Card 2/2 *DP*

DARGAYS, Ya.O., inzh.; SOSEV, N.S., inzh.

Improving the RPM-17 pneumatic bore hammer. Bezop. truda v prom.
3 no.11:32 N '59. (MIRA 13:3)

1. Agapovskiy izvestnyakovyy kar'yer.
(Boring machinery)

TVERSKOY, M.A., inzh.; SOSEV, N.S., tekhnik

Changing the design of spring shock absorbers of inertia-type
grizzlies. S-r. zhur. no.6:74 Je '64. (MIRA 17:11)

1. Izvestnyakovo-dolomitnyy kar'yer Gor'nogo upravleniya Magnitorgorskogo
metallurgicheskogo kombinata.

SOSEVICH, N.D.; BRENKEVICH, D.L.

Make timely and good preparation of the locomotive system
for the new types of traction. Elek. i tepl.tiaga 3 no.2:
14-16 F '59. (MIRA 12:4)

1. Nachal'nik sluzhby lokomotivnogo khozyaystva Kuybyshevskoy
dorogi (for Sosevich). 2. Glavnnyy inzhener sluzhby lokomotivnogo
khozyaystva Kuybyshevskoy dorogi (for Brenkevich).
(Locomotives)

SOSEVICH, V.

Propeller replacement under water on the diesel vessel "IUzhno-Sakhalinsk." Mor.flot 20 no.1:31-32 Ja '60. (MIRA 13:5)

1. Gruppovoy inzhener Sakhalinskogo parokhodstva.
(Ships--Maintenance and repair)
(Propellers)

RUBINOVICH, R.S.; EPCHTEYN, R.Ya.; SOSHAL'SKAYA, O.N.

Spectrochemical determination of platinum, palladium, and
gold in rocks. Zhur. anal. khim. 18 no.2:216-221 F '63.
(MIRA 1"-10)

1. Scientific-Research Institute of Geology of the Arctic.

SOSHCHENKO, V.V.

On the Sol'vytchegodsk Division. Avtom. telem. i sviaz' 3 no.8:
20-23 Ag '59. (MIREA 13:2)

1. Nachal'nik Sol'vytchegodskoy distantsii signalizatsii i svyazi
Severnoy dorogi.
(Arkhangel Province--Railroads--Signaling)

SOSHCHENKO, YE. M.

MATSKIN, L.A.; KOVALENKO, K.I.; BABUKOV, V.G.; KONSTANTINOV, N.N.; PONOMAREV, G.V.; FAL'CHIKOV, G.N.; PELENICHKO, L.G.; SHAMARDIN, V.M.; GLADKOV, A.A.; BRILLIANT, S.G.; SHEVCHUK, V.Ya.; SOSHCHENKO, Ye.M.; ALEKSANDROV, A.M.; BUNCHUK, V.A.; KRUPENIK, P.I.; MAYEVSKIY, V.Ya.; YELSHIN, K.V.; GAK, Kh.A.; POTAPOV, G.M.; KARDASH, I.M.; STEPURC, S.I.; KAPLAN, S.A.; SELIVANOV, T.I.; YEREMENKO, N.Ya.; ZHUZH, A.D.; USTINOV, A.A.; GIRKIN, G.M.; VOLOBUYEV, P.P.; CHERNYAK, I.L., nauchnyy red.; DESHALYT, M.G., vedushchiy red.; GENNAD'YEVA, I.M., tekhn.red.

[Combating losses of petroleum and petroleum products; materials of the All-Union Conference on Means of Combating Losses of Petroleum and Petroleum Products] Bor'ba s poteriami nefti i nefteproduktov; po materialam Vsesoiuznogo soveshchaniia po bor'be s poteriami nefti i nefteproduktov. Leningrad, Gos.nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1959. 157 p. (MIRA 13:2)

1. Nauchno-tekhnicheskoye obshchestvo neftyanoy i gazovoy promishlennosti.
(Petroleum industry)

SOSHCHENKO, Ye.M., POPOV, N.L.

Protecting pipelines from corrosion caused by stray currents.
Neft. khoz. 38 no.1:60-65 Ja '60. (MIRA 13:7)
(Bashkiria—Pipelines—Corrosion)

CHERNYAYEV, D.A.; SOSHCHEKO, Ye.M.

Using mechanical separators for removing water from pipelines
after sheating. Neft. khoz. 38 no.11:42-46 N '60. (MIRA 14:4)
(Pipelines)

GALEYEV, V.B.; SOSHCHEKO, Ye.M.

Experience in the operation of petroleum-pumping stations.
Transp. i khran. nefti no.9:7-10 '63. (MIRA 17:1)

1. Ufimskiy neftyanoy institut i Bashkirskoye nefteprovodnoye
upravleniye.

GALEYEV, V.B.; SOSHCHENKO, Ye.M.; BOBRITSKIY, N.V.

Analyzing the causes of failure in pipelines. Transp. i khran.
nefti i nefteprod. no.7:7-9 '64. (MIRA 17:8)

1. Ufimskiy neftyanoy institut i Bashkirskoye nefteprovodnoye
upravleniye Glavnogo upravleniya po transportu i snabzheniyu
neft'yu i nefteproduktami RSFSR.

GALEYEV, Vil' Bareyevich; CHERNYAYEV, Davyd Aleksandrovich;
SOSHCHENKO, Yevgeniy Maksimovich; NOVIKOVA, M.M., ved.
red.

[Repair of pipelines and equipment of petroleum pumping
stations] Remont magistral'nykh truboprovodov i oborudo-
vaniia nefteperekachivaiushchikh stantsii. Moskva, Nedra,
1965. 207 p. (MIRA 18:7)

SOSHCHEVA, G., inzhener.

Car catcher on the empty coal car branch of inclines. Mast.ugl.
3 no.9:16 S'54. (MLRA 8:2)
(Mine haulage)

SOSHCHEVA, G., inzhener.

Scrapers chain catch of a stope conveyer. Mast.ugl. 3 no.11:20
(MLRA 8:3)
N°54.
(Coal-mining machinery)

SOSHESTVENSKAYA, Ye. M.
1a

21

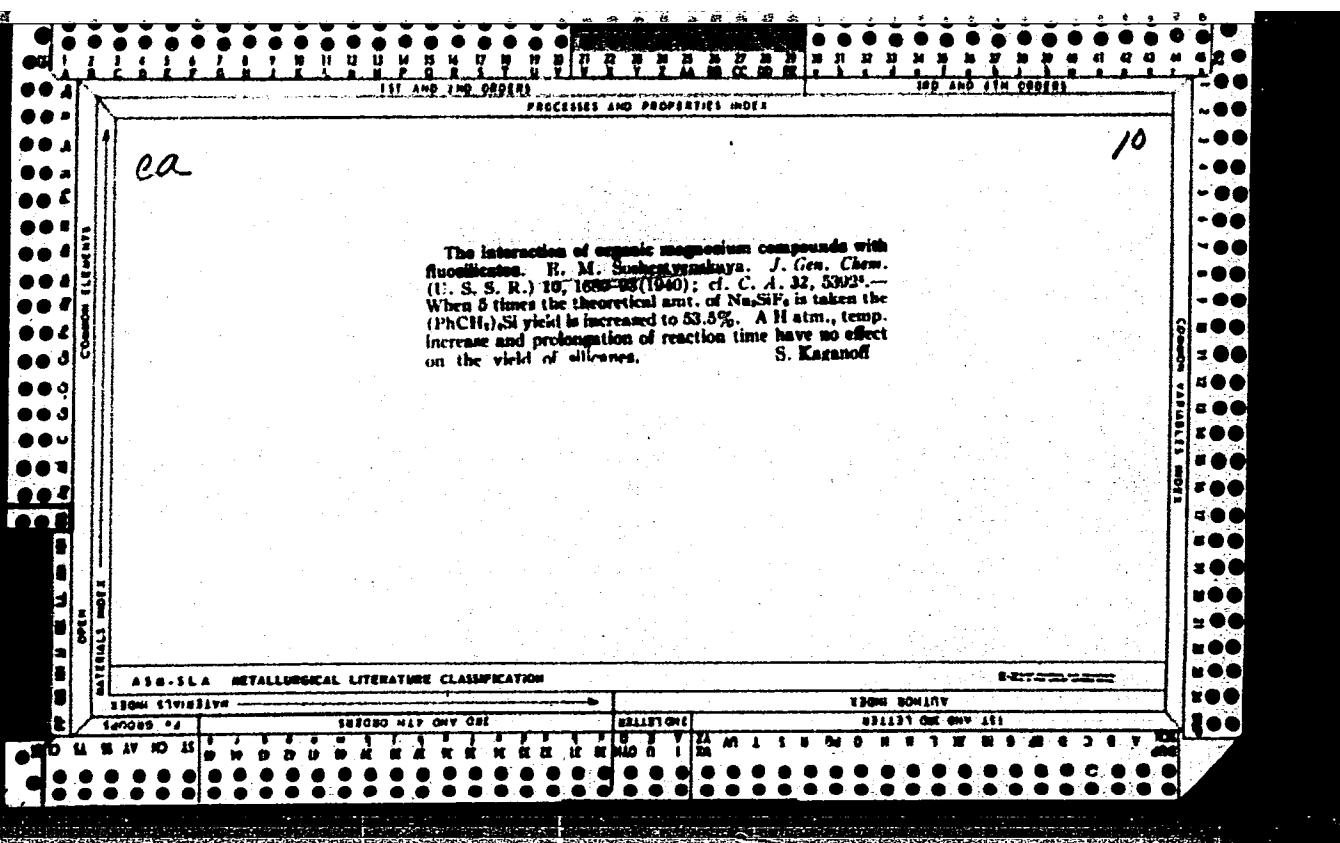
Synthetic tannines from Kashpira bituminous shale tar.
V. Ya. Dodonov and E. M. Soshestvenskaya. *Izvestiya
Tsentral. Nauch.-Issledovatel. Inst. Kozhevennoi Prom.*
1932, No. 10-11, 66-9.—A product contg. tanning sub-
stances 10.43, sol. nontanning substances 17.69, insol.
substances none, and H₂O 65.88%, was obtained by
treating a Kashpira shale tar b. 260-320° with formalde-
hyde and H₂SO₄. A. A. Bochting

ASV SLA METALLURGICAL LITERATURE CLASSIFICATION

A new method of preparing organic silicon compounds
I. Interaction of benzylmagnesium chloride with sodium
fluosilicate. E. M. Sudzitsyankina. *J. Gen. Chem.*
(U. S. S. R.) 8, 234 (in French 207) (1938); cf. preceding
abstr. ---PhCH₂MgCl (from 10.23 g. PhCH₂Cl and
2.14 g. Mg) in 50 ml. Et₂O with 3.76 g. Na₂SiF₆ was vigor-
ously shaken and the Et₂O distd. off. The residue was
heated at 100-70° for 1 hr. and, after cooling and adding,
Et₂O, was decompd. with H₂O and HCl. The aq. layer,
contg. the ppt., was repeatedly extd. with Et₂O; the Et₂O
was expelled and the residue was distd. up to 200°, afford-
ing 20.7% (PhCH₂)₂Si, m. 127.5° (petr. ether). At-
tempts to obtain the silane by the Grignard reaction at
room temp. produced neg. results even after 11 days of in-
teraction. Twenty references. Chas. Blam.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

SEARCHED	SEARCHED WITH ONLY GPC	SEARCHED	SEARCHED WITH ONLY GPC
Y	Y	Y	Y



SOSHESTVENSAYA, YE.M.

"The Question of the Reaction of Mixed Organo-Magnesium Compounds with Salts of Hydrofluosilicic Acid," Zhur. Obshch. Khim., 10, No 18, 1940. Lab of Inorganic and Organic Chem., Saratov Agricultural Inst. recd. 9 April 1940.

Report U-1610, 3 Jan 1952.

SOSHESTVENSKAVA, E. M.

Technology of preparing alumina from ferruginous clays. Ya Ya Dodonov, G. V. Medoks, and E. M. Soshestvenskaya. Zhur. Friklad. Khim., 20 (9) 870-74, 1947).---Three methods were tried, using ferruginous clays containing 18.51 to 20.34% Al_2O_3 (1) Sulfuric acid method. Clay was treated at 125° with 62.5% H_2SO_4 in amounts necessary to convert the oxides into sulfates. Duration of treatment varied with the quantity of clay used per batch; for a 10-gm. sample 2 hr. was sufficient. The reaction products were then washed with boiling water, and the solution was separated from the aluminum sulfate by filtration under reduced pressure. The precipitate was washed with hot water and the filtrates were combined. The filtrates were evaporated to the point of crystallization of the sulfates and the thickened mass was mixed with calcined or crystalline soda in amounts sufficient to precipitate the Al and Fe completely as hydroxides. The contents were then heated on an air bath to obtain a solid mass, treated with boiling water, and filtered, the precipitate being washed several times with water. The washed precipitate was heated for 30 min. with near boiling water and caustic soda, and the concentrated solution of sodium aluminate was filtered under reduced pressure. The precipitate of iron hydroxide was washed several times with hot water. The filtrates were combined and heated to boiling; $\text{Al}(\text{OH})_3$ was precipitated by adding a concentrated solution of NH_4Cl or passing a stream of CO_2 into the solution. The precipitate was filtered, washed, dried, and calcined; the yield of Al_2O_3 was 63%. (2) Ammonium sulfate method. Clay was heated with 194% by weight of 3% ammonium sulfate solution to boiling; the aluminum sulfate was separated by filtration and washed, and the filtrates were combined and treated in a manner analogous to that in method 1 above. Yield was up to 60% alumina. (3) Alkali-

SOSHESTVENSKAYA, Ye. M.

USSR/Chemistry - Organosilicon Compounds
Jul 52

"The Problem of the Reactions of Mixed Organomagnesium Compounds With Silicohydrofluorides,"
Ye. M. Soshestvenskaya, Lab of Chem., Saratov
Agr Inst

"Zhur Obshch Khim" Vol 22, No 7, pp 1122-1124

Studied the behavior of potassium, calcium and barium silicohydrofluorides toward benzylmagnesiumchloride, as well as the behavior of phenylmagnesiumsilicide toward phenylmagnesium silicohydrofluoride. An excess of Na₂SiF₆ added in cesiumbromide. An excess of 229r31

the prepn of tetraphenylmonosilane sharply increased the yield. Potassium silicohydrofluoride reacted more readily with benzylmagnesiumchloride and phenylmagnesiumbromide than with sodium silicohydrofluoride. The yield of tetrabenzyl silicon was increased from 20% to 29-36%, and that of tetraphenylmonosilane from 5.6% to 46.9%.

229r31

SOSHESTVENSKAYA, E. M.

Chemical Abst.
Vol. 48 No. 5
Mar. 10, 1954
Organic Chemistry

The reaction of mixed organomagnesium compounds with
salts of fluosilicic acid. III. E. M. Soshestvenskaya
(Saratov Agr. Inst.) J. Gen. Chem. U.S.S.R. 22, 1163
5(1952)(Engl. translation).—See C.A. 47, 8030d.

H. L. H.

SOSHESTVENSKAYA, YE. M.

USSR/Chemistry - Phosphorous Organic
Compounds Oct 52

"Preparation of Tetraphenylphosphonium Bromide," G. V.
Medoks, Ye. M. Soshestvenskaya, and N. N. Sakharova

Zhur Prik Khim, Vol 25, No 10, pp 1111-1114

A new variation of a method for preparing tetraphenyl-phosphonium bromide was developed. It was demonstrated that the new method is preferable to the original variation described earlier (Ya. Dodonov, G. Medoks, Berichte Vol 61, p 907, 1928).

(CA 47 no. 19:9931 '53)

263T54